

FIGURE 1

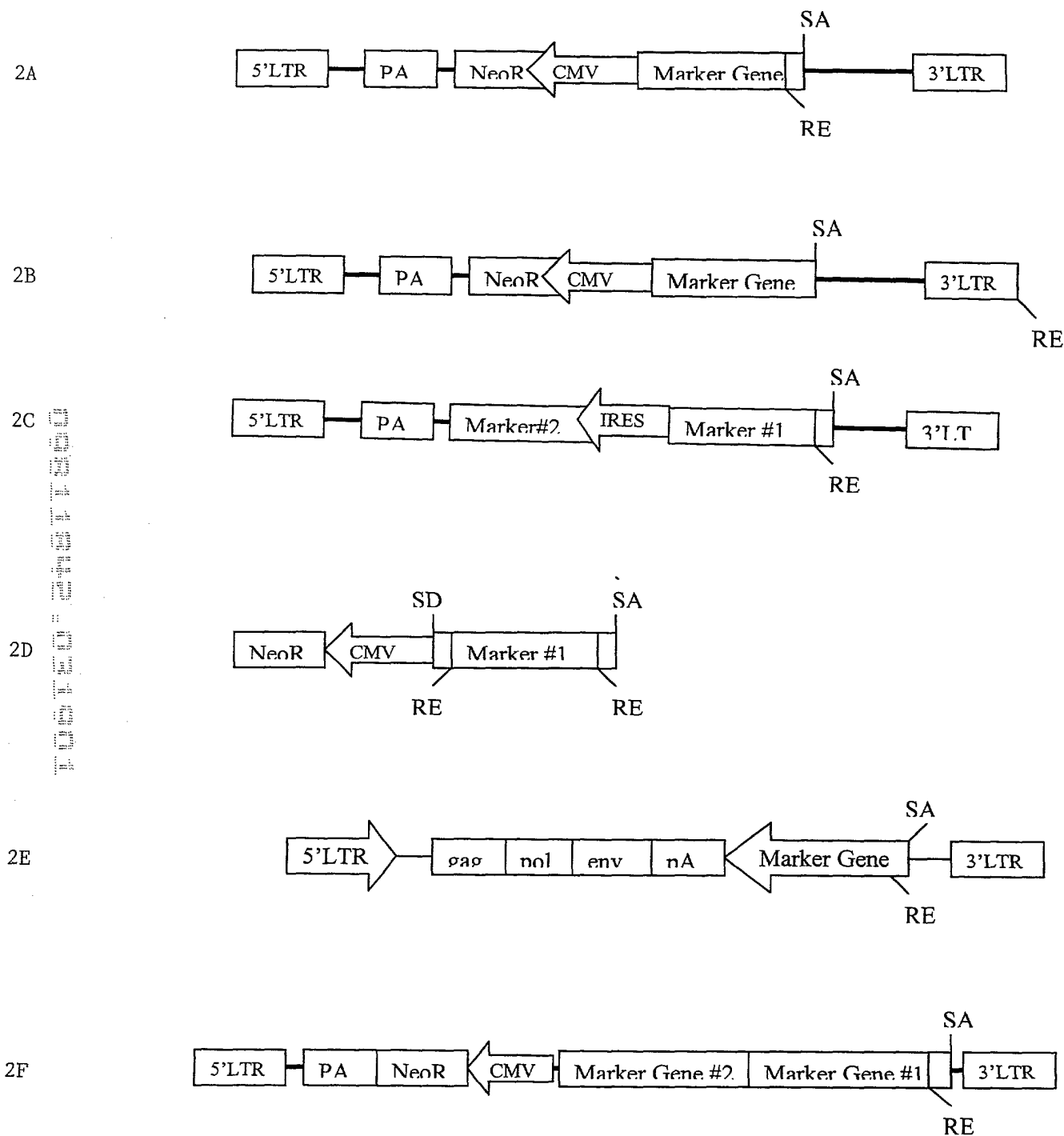


FIGURE 2

# Genomavir Technology

P04465US1 (NewLink Genetics)  
 LINK, et al.  
 METHODS AND COMPOSITIONS FOR  
 ELUCIDATING RELATIVE PROTEIN  
 EXPRESSION LEVELS IN CELLS  
 Sheet \_3\_ of 23

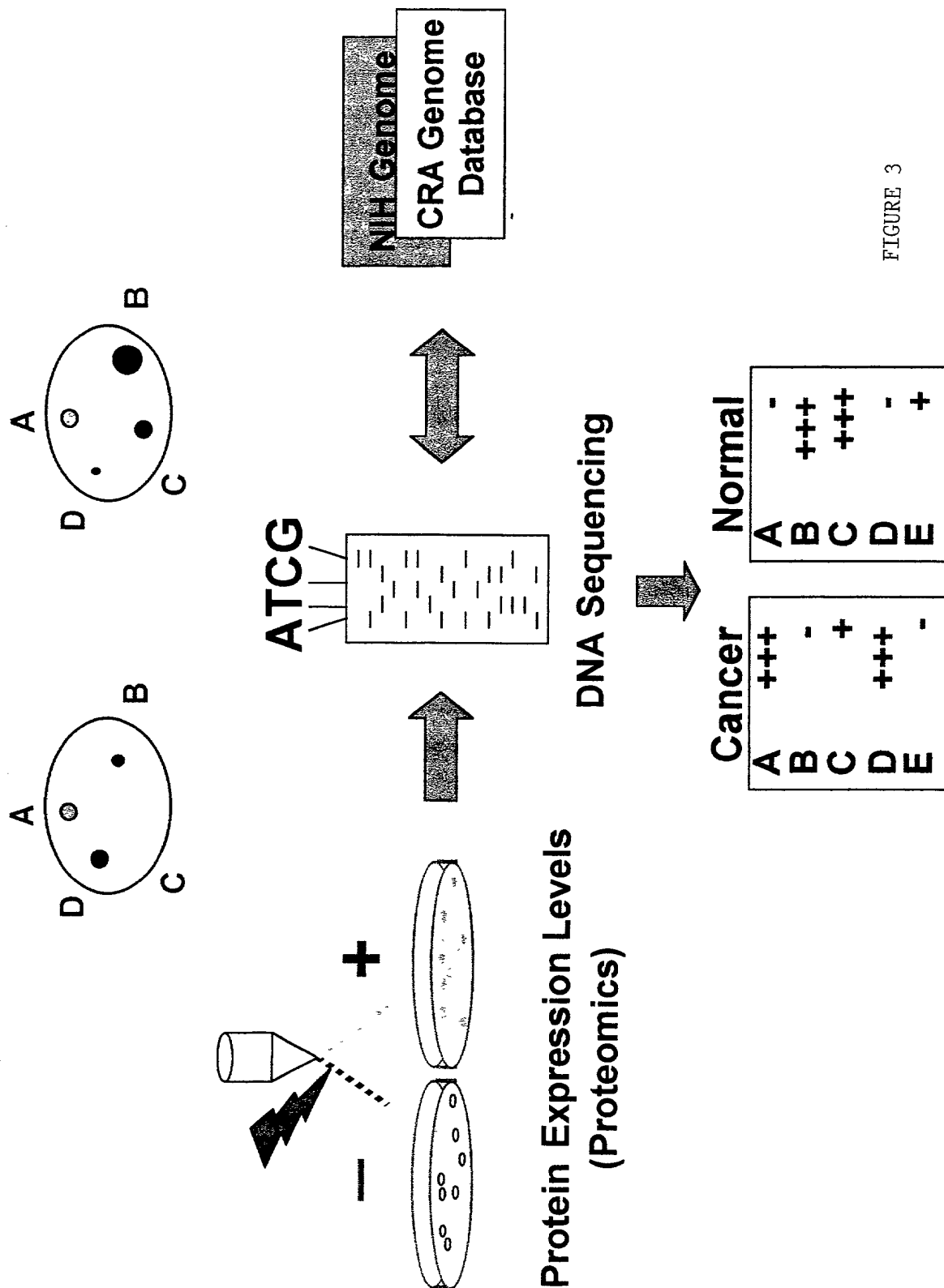
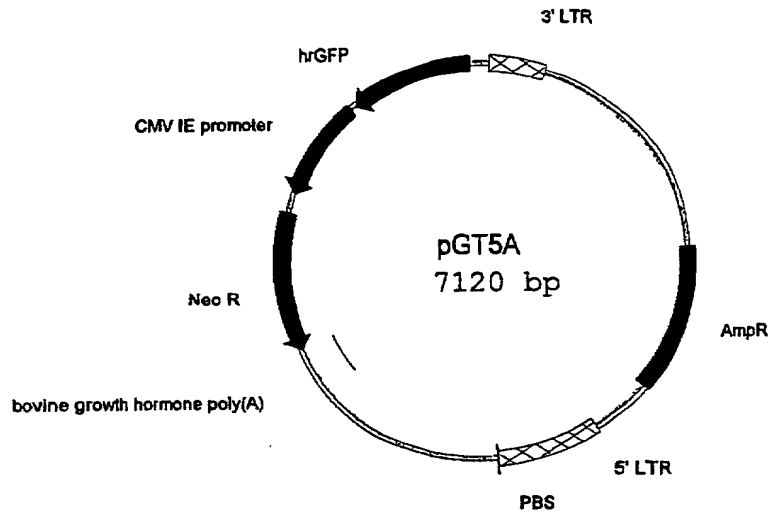


FIGURE 3

A



B

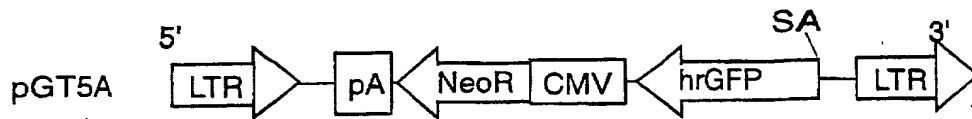


FIGURE 4

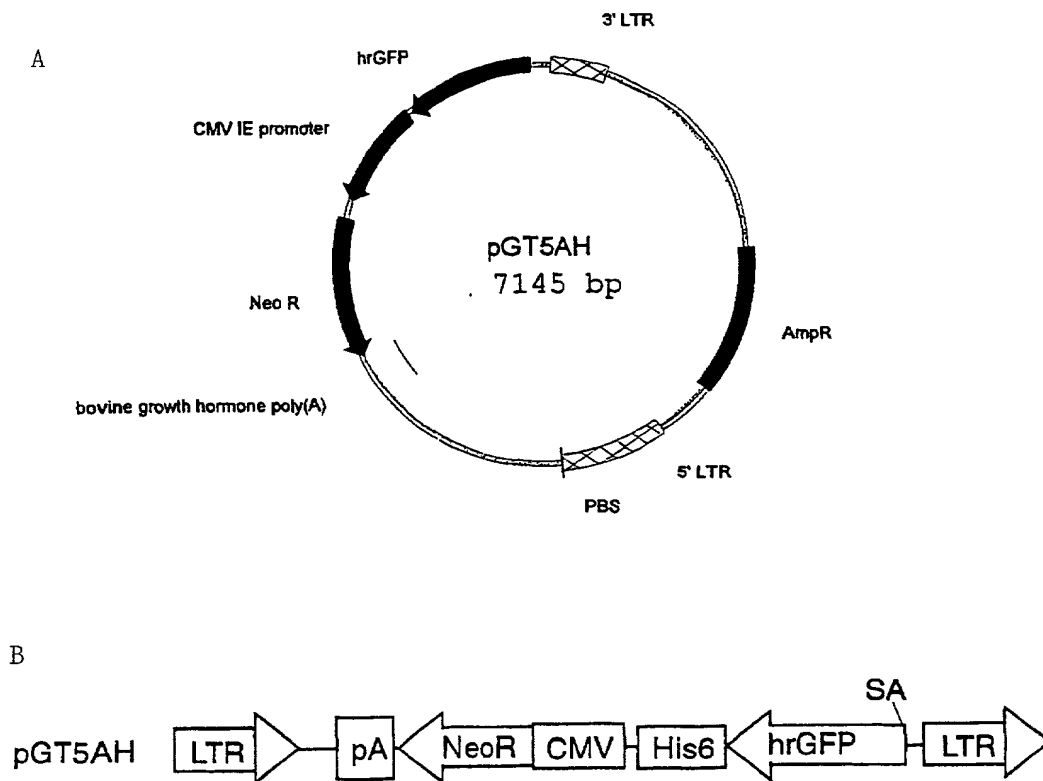
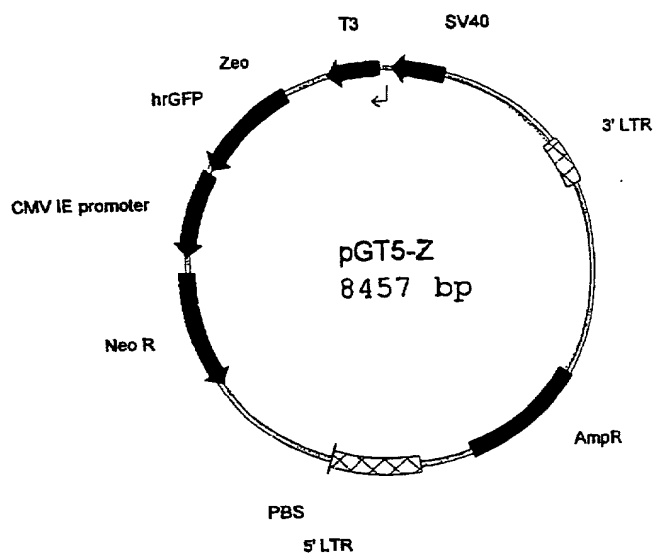


FIGURE 5

A



B

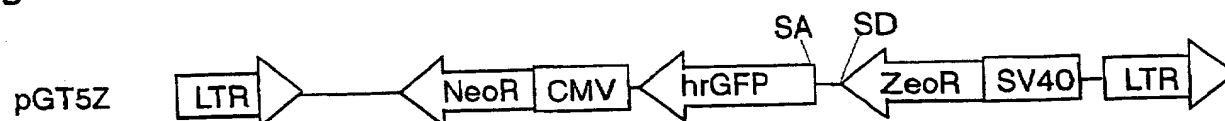
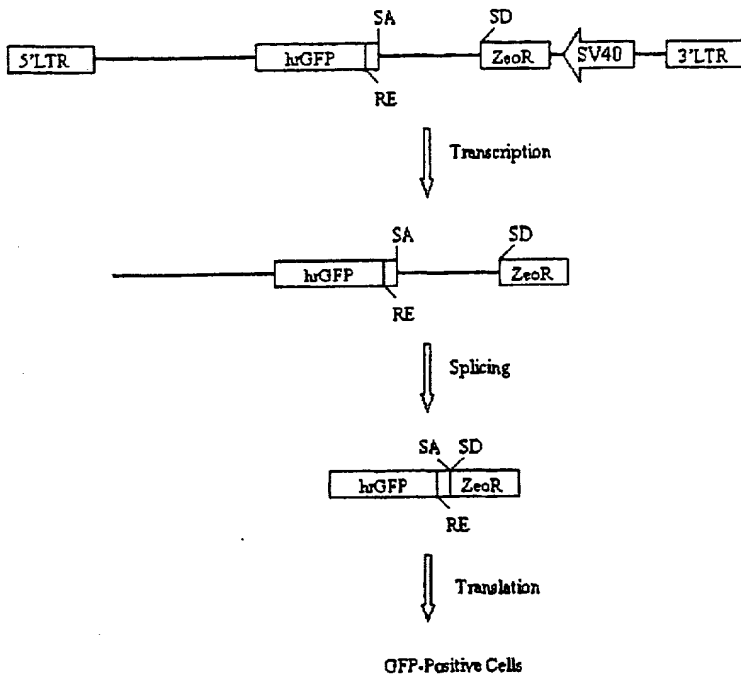


FIGURE 6

A.



B.

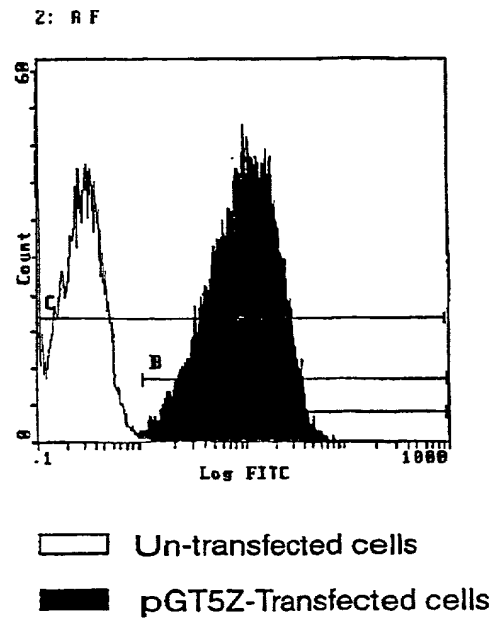
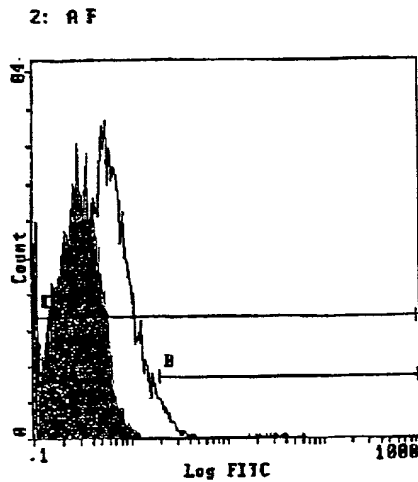


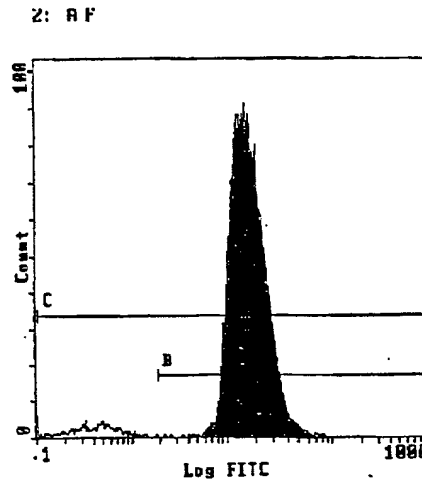
FIGURE 7

A



S:

B



GFP (-) population



GFP (+) population



PA317 without pGT5A transfection

FIGURE 8



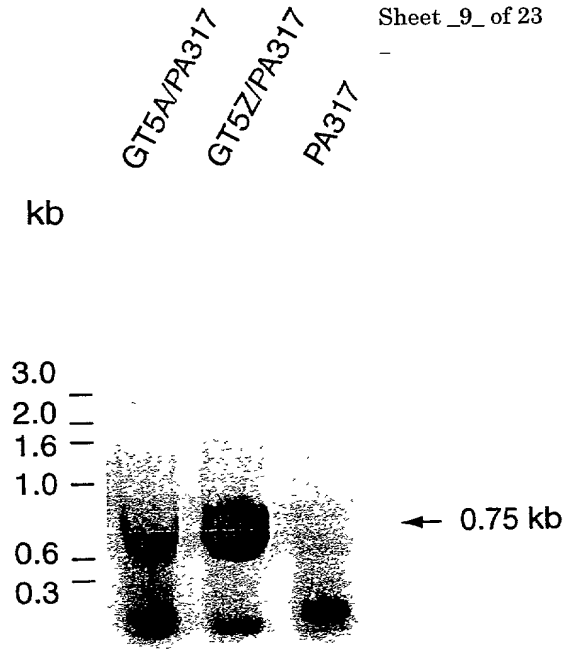
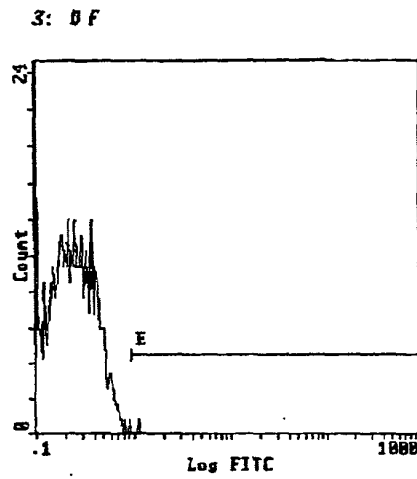


FIGURE 9

A



B

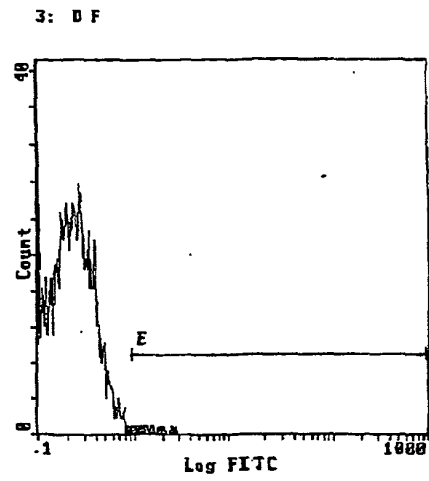
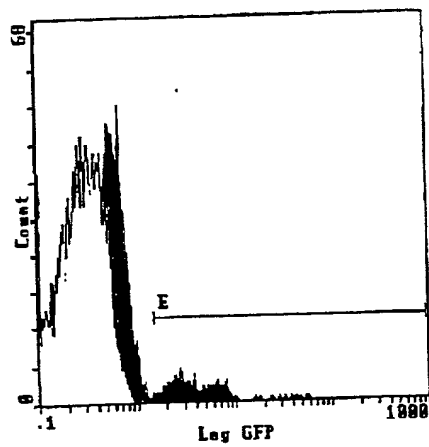


FIGURE 10



□ Un-transduced NIH3T3 cells  
■ GT5A-transduced NIH3T3 cells

FIGURE 11

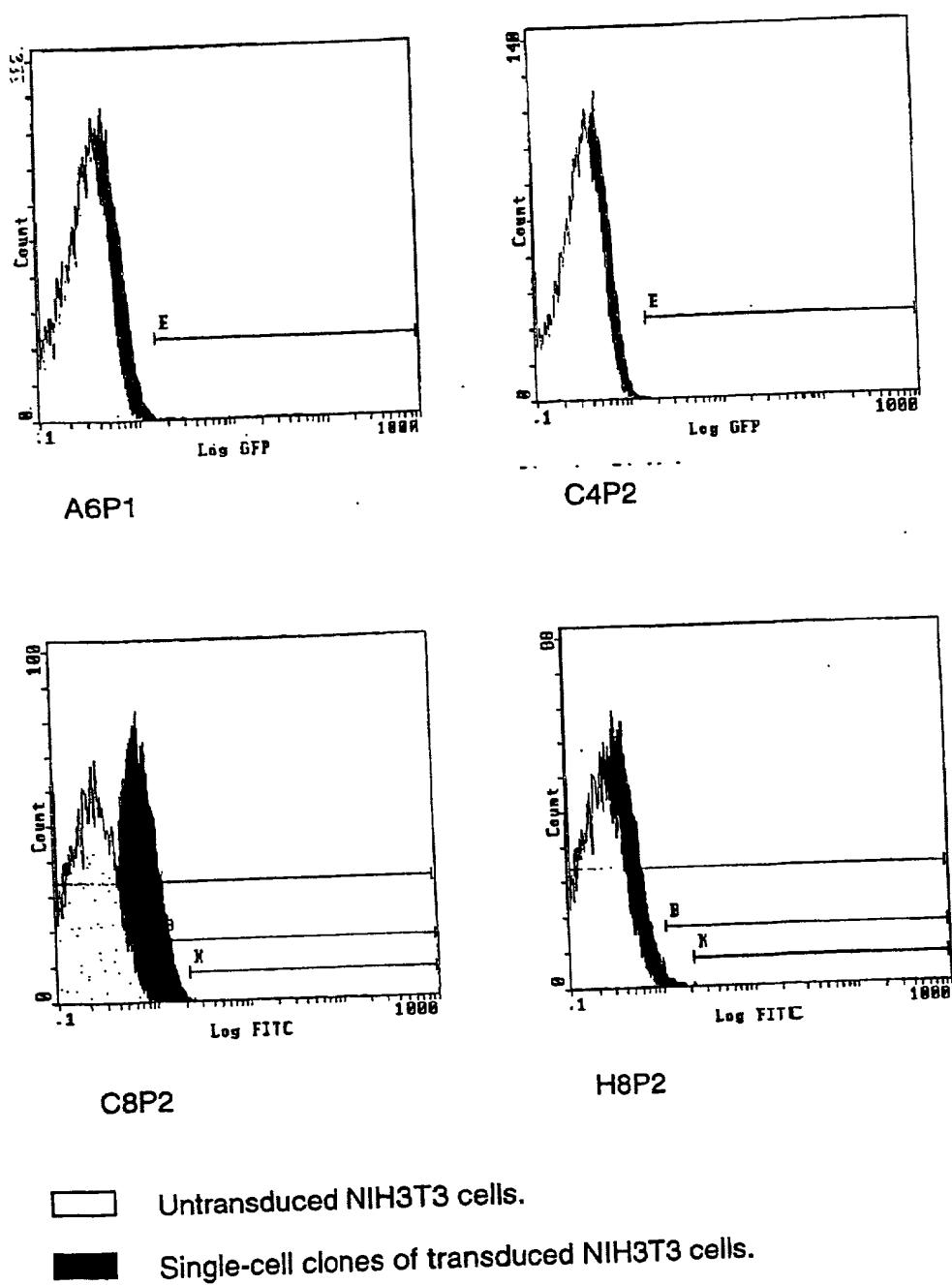


FIGURE 12

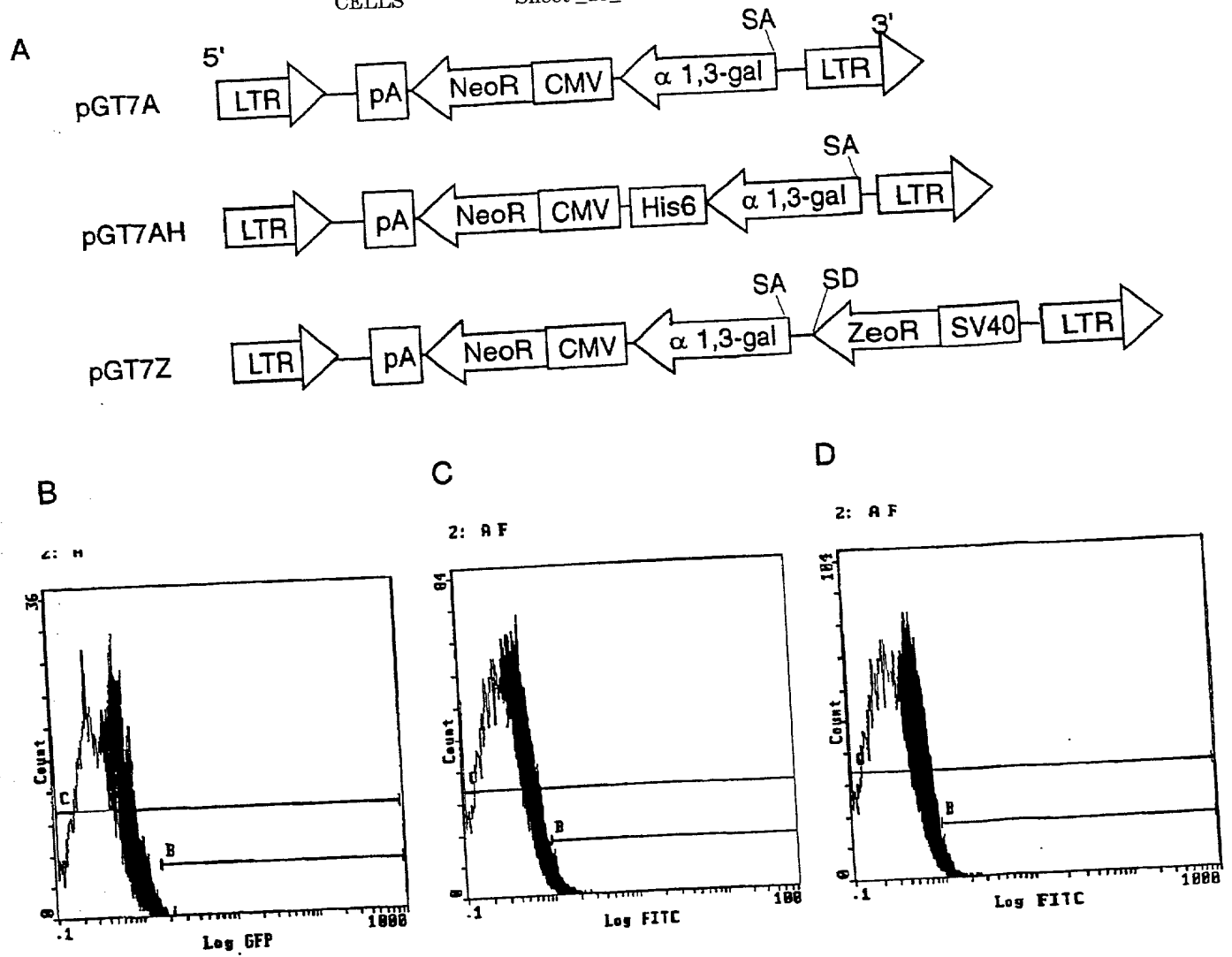


FIGURE 13

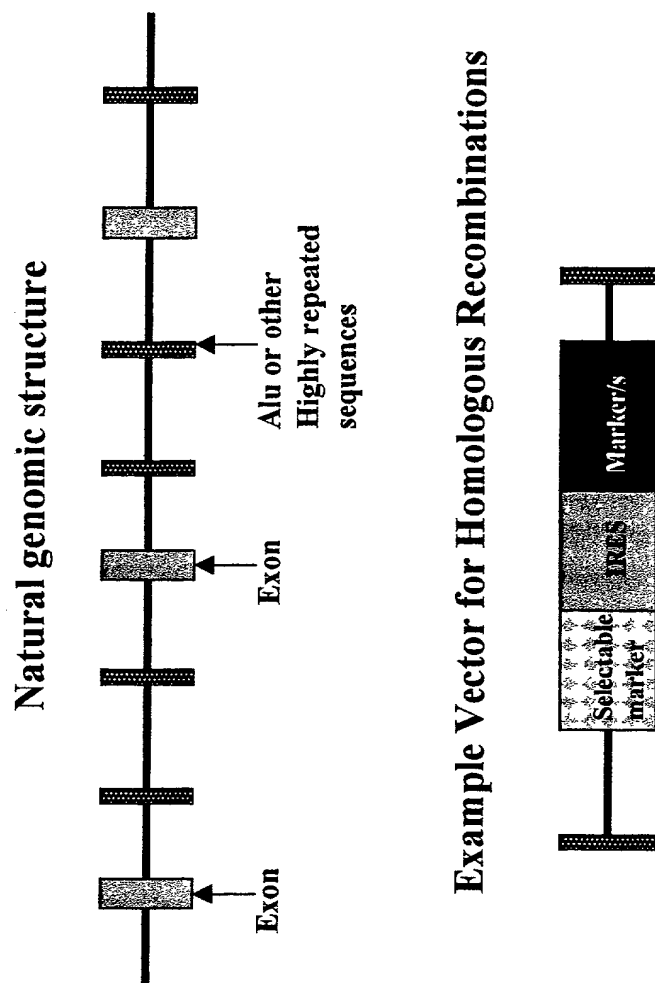


FIGURE 14

## Natural genomic structure



## Transfection and integration of vector/s by illegitimate recombination

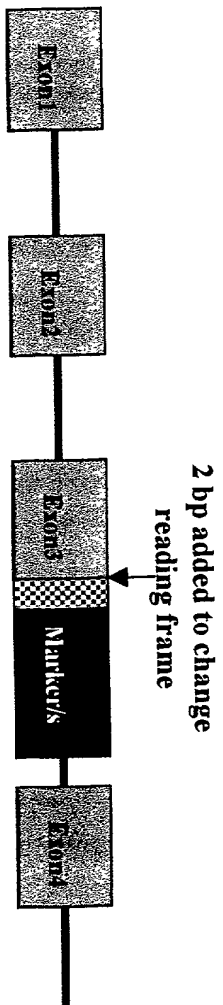
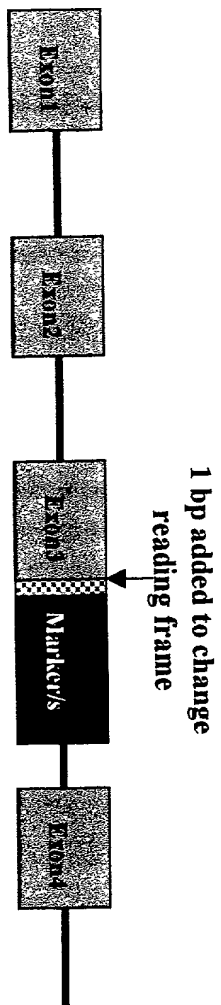


FIGURE 15

[illegible]

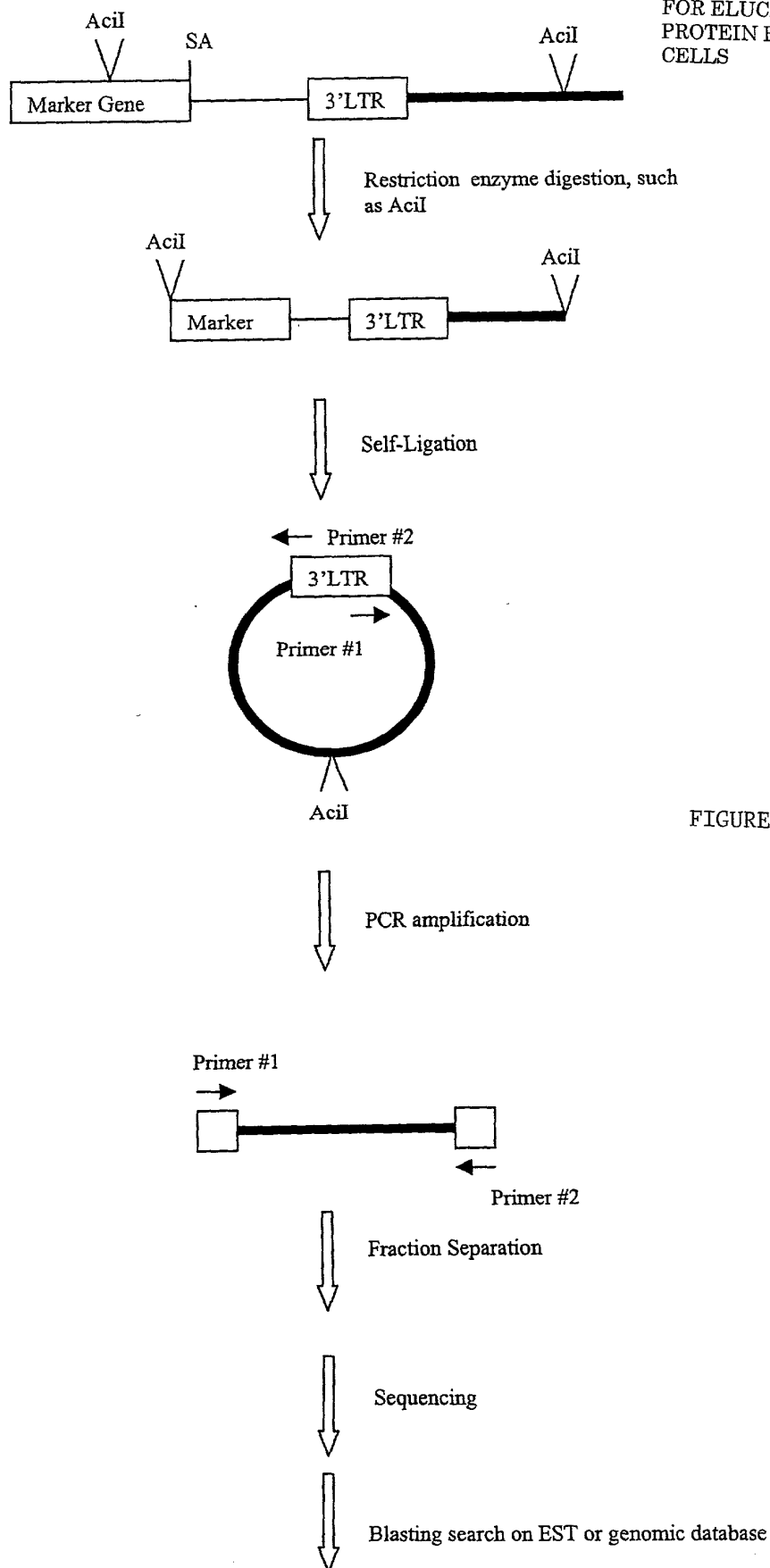


FIGURE 16



# Serial Analysis of Viral Integration (SAVI)

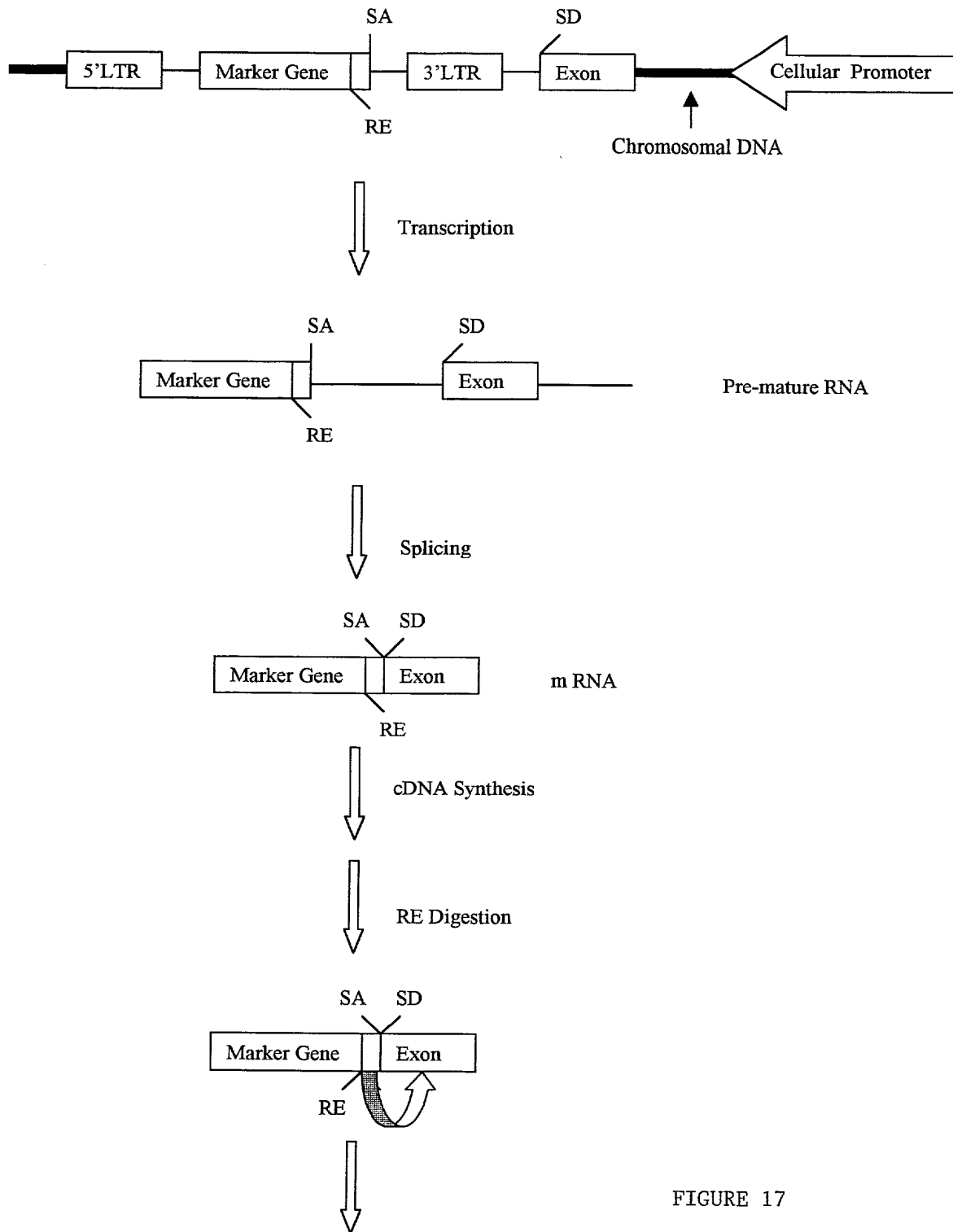


FIGURE 17

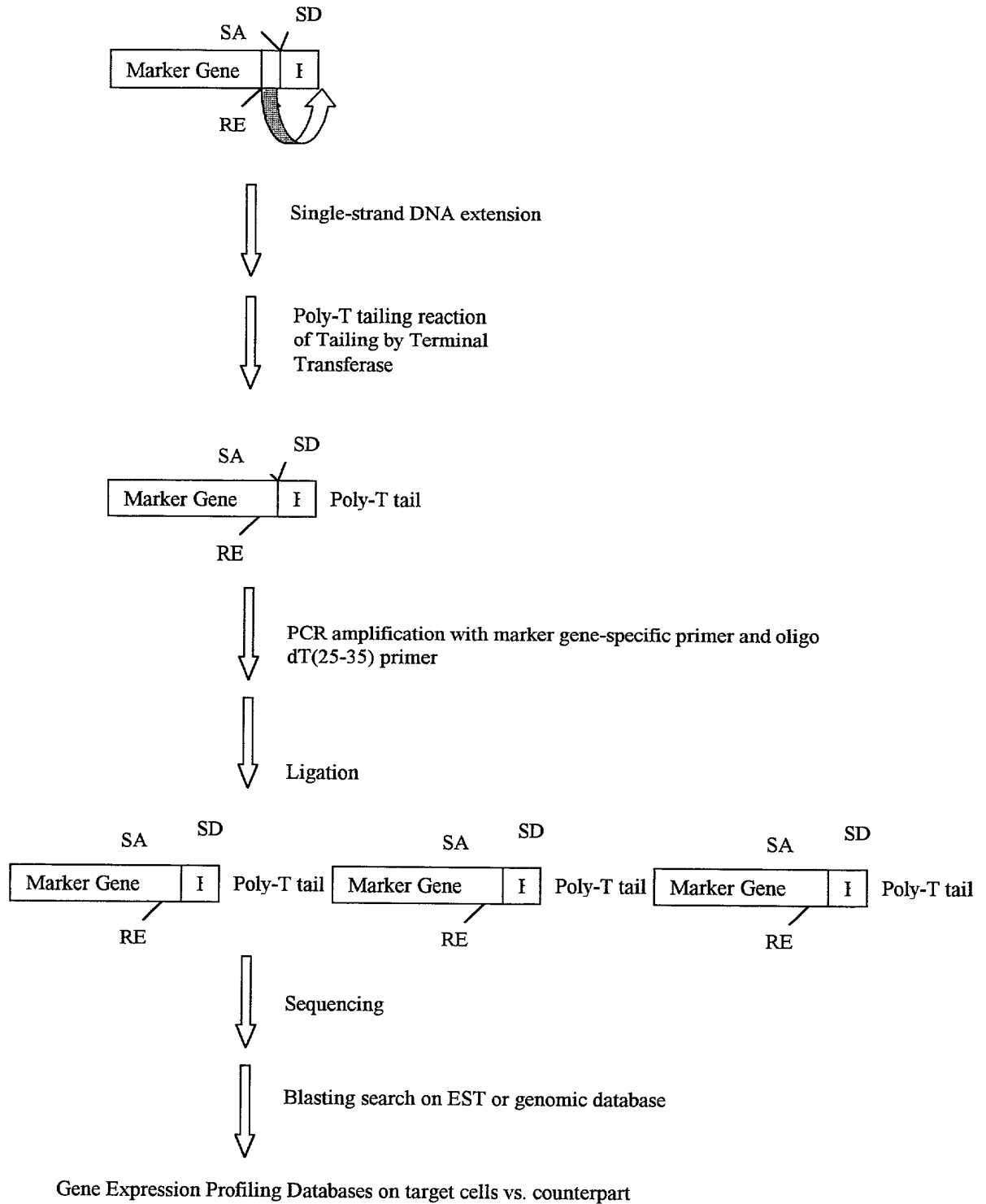


FIGURE 17 (cont.)

FIGURE 18

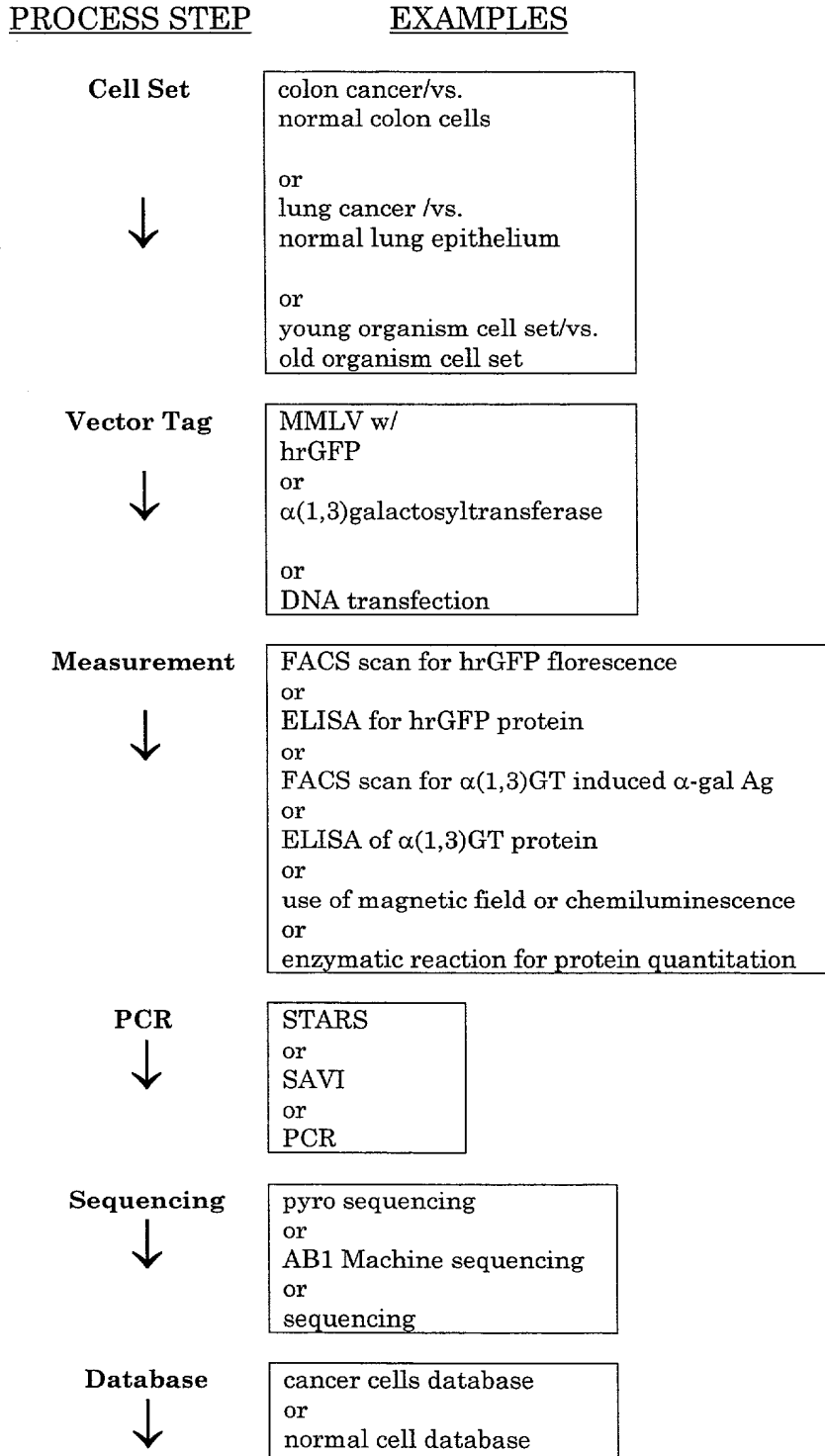


FIGURE 18 (cont.)

PROCESS STEP

EXAMPLES

**Search Process**



Parallel BLAST search EST  
 or  
 Search Genome database full sequence to define intron/exon  
 or  
 Alternative splicing database

**Comparative  
Proteonomics**



Compare colon cancer cell to normal colon epithelium  
 or  
 Compare lung cancer cell to normal lung cell

**Pathway  
Analysis**



multigene co-variant  
 or  
 Specific cell circuit analysis e.g. cell cycle

**Target  
Validation/  
Diagnostics**



Monoclonal kb diagnostics Northern analysis, Western analysis  
 or  
 DNA assay/gene chip comparison  
 or  
 SNP Associations  
 or  
 Yeast 2-hybrid fishing for protein partner

**Drug  
Development**

monoclonal Antibody treatment  
 or  
 small molecule library search and/or  
 treatment  
 or  
 gene therapy  
 or  
 anti-sense  
 or  
 Ribozyme  
 or  
 any other conventional  
 pharmaceutical drug development

FIGURE 18 (cont.)

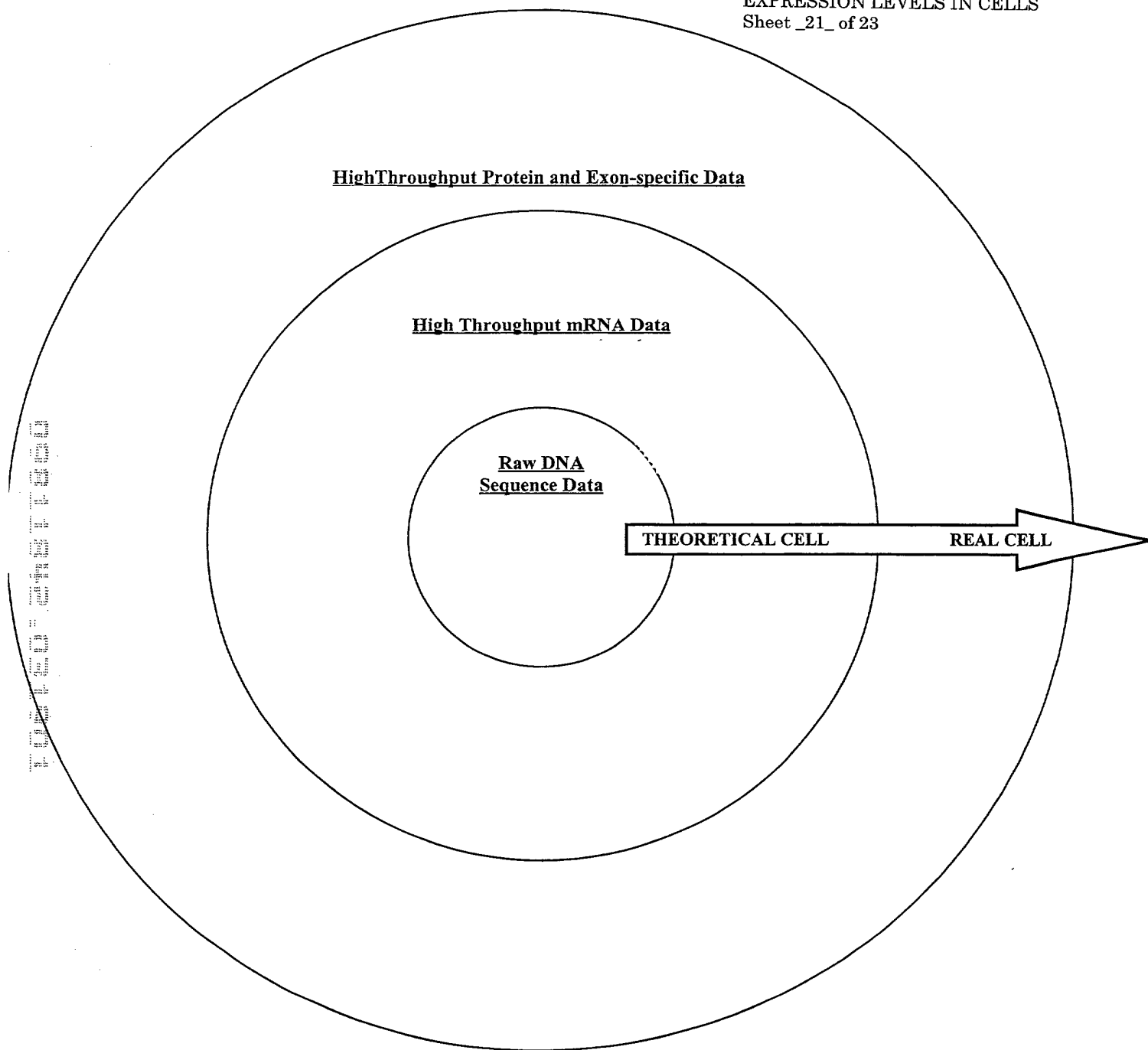


FIGURE 19

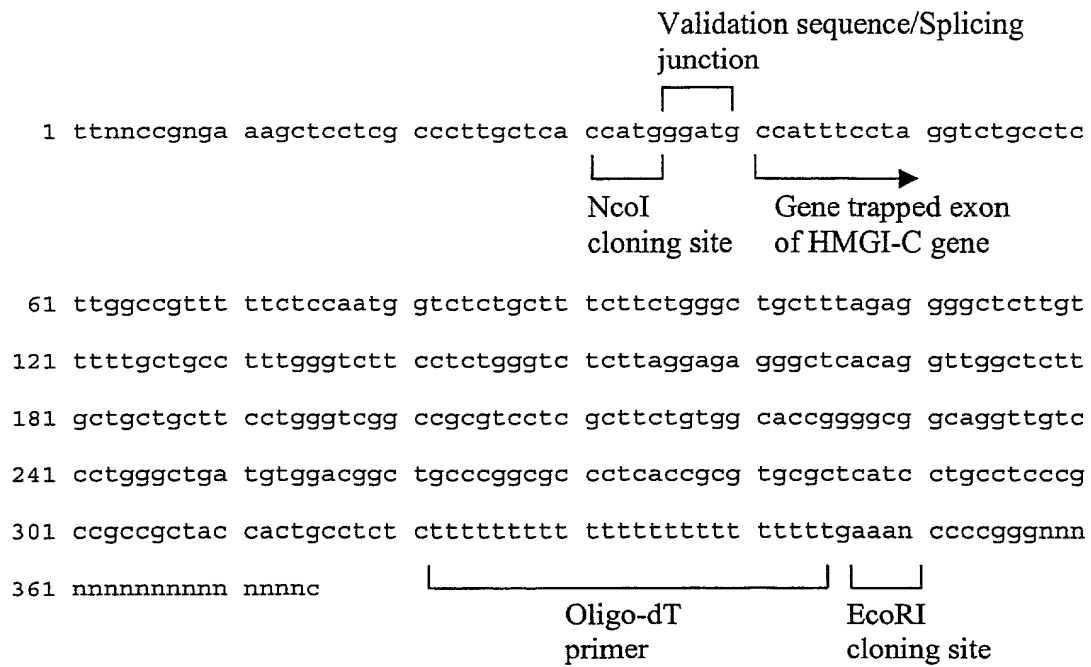


FIGURE 20

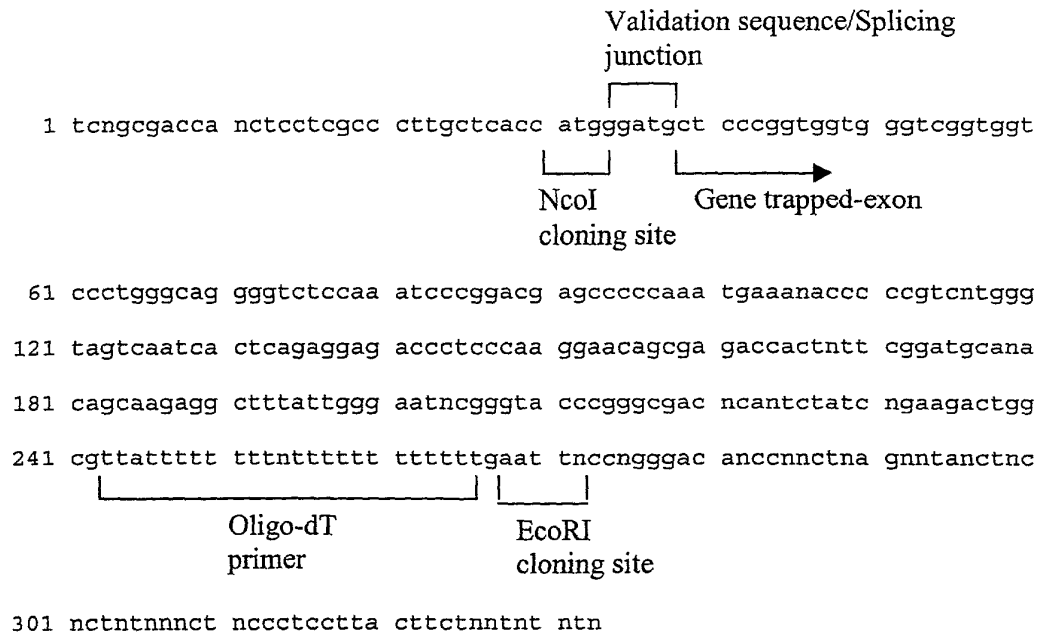


FIGURE 21